If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.

Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ

Training Office, Bldg. 911A.

### C-A OPERATIONS PROCEDURES MANUAL

12.48 TR-4 55 Degree Line Scattering Foil Loading

Text Pages 2 through 3

**Hand Processed Changes** 

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Initials

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# 12.48 TR-4 55 Degree Line Scattering Foil Loading

## 1. Purpose

The purpose of this procedure is to define the sequence of activities required to load scattering foils into the diagnostic chamber in the 55 degree line.

# 2. Responsibilities

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

## 3. <u>Prerequisites</u>

3.1 Tandem Operator training

## 4. <u>Precautions</u>

None

# 5. <u>Procedure</u>

Check	<u>list</u> (w	hen indicated by "", initial step upon completion)	
5.1		Shut image gate valve.	
5.2		Shut hand valve in front of diagnostic chamber in 55 d	egree line.
5.3		Shut wall valve in TR-4 in 55 degree line.	
5.4		Vent line very slowly using nitrogen. This needs to be protect remaining usuable foils.	done carefully to
5.5		When line has reached atmospheric pressure, remove the diagnostic chamber.	he foil holder from
5.6		Carefully remove foils that are to be replaced.	
5.7		Load new foils into the foil holder.	
5.8		Carefully replace the foil holder in the diagnostic cham	ıber.
5.9		Very slowly, pump out the diagnostic chamber and sec	tion of beam line.
	5.9.1	Start with the pump valve off.	
	5.9.2	Slowly open the pumping valve until the pump	pressure spoils a
C-A-OPM 12.		2	Revision 00 February 20, 2002

			little (250 - 300 microns).
		5.9.3	Let the pump work until the pressure is again as low as possible.
		5.9.4	Crack the valve some more and again bring the pressure up to the 250 - 300 micron range.
		5.9.5	Repeat steps 5.9.2 to 5.9.4 until the beam line pressure is as low as possible with the pump valve wide open.
	5.10		While pumping is being done update the card containing the list of foils on the beam line and the corresponding card in the control room.
	5.11		After pumping is completed, close the hand valve on pumping port and then open the hand valve to the switcher.
	5.12		Let switcher pump on box and recover.
	5.13		Finally open wall valve in TR-4.
6.	<u>Docur</u>	nentatio	<u>on</u>
	None		
7.	Refere	ences	
	None		
8.	Attacl	<u>iments</u>	
	None		